

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S35	8	(thread near1 specific) with breakpoint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/12/05 16:08
S36	9	(thread near2 specific) with breakpoint	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/12/05 16:08
S37	51	debug\$4 with (multiple near2 thread\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/12/05 16:08
S39	167	debug\$4 same (threa\$2) SAME BREAKPOIN\$2 AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:04
S40	67	debug\$4 same (threa\$2) SAME (ENTRY OR START\$3 OR BEGIN\$5) SAME BREAKPOIN\$2 AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:08
S41	46	debug\$4 same (threa\$2) SAME (ENTRY OR START\$3 OR BEGIN\$5) SAME BREAKPOIN\$2 SAME (stop\$3 or terminat\$3 or end\$3) AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:05
S42	15	debug\$4 same (threa\$2) SAME (ENTRY OR START\$3 OR BEGIN\$5) SAME BREAKPOIN\$2 SAME (stop\$3 or terminat\$3 or end\$3) same (determin\$3 or check\$3 or verif\$4) AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:06
S43	1	(threa\$2) SAME (ENTRY OR START\$3 OR BEGIN\$5) near BREAKPOIN\$2 SAME (stop\$3 or terminat\$3 or end\$3) AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:07
S44	6	(threa\$2) and (ENTRY OR START\$3 OR BEGIN\$5) near BREAKPOIN\$2 SAME (stop\$3 or terminat\$3 or end\$3) AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:07

## EAST Search History

S45	4	(threa\$2) same (ENTRY OR START\$3 OR BEGIN\$5) near BREAKPOIN\$2 AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:07
S47	30	debug\$4 same (threa\$2) and (ENTRY OR START\$3 OR BEGIN\$5) near BREAKPOIN\$2 AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:15
S48	14	S47 not (international and business).as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 09:15
S49	36	(threa\$2) and (ENTRY OR START\$3 OR BEGIN\$5) near BREAKPOIN\$2 AND (@AD<"20040408" OR @RLAD<"20040408" OR @PRAD<"20040408")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 12:51
S50	88	debug\$4 same ((entry or end or exit or start\$3 or begin\$3) near breakpoin\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 12:53
S51	52	S50 not (international and business).as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 12:57
S52	6	((("20050034024") or ("7020871") or ("20030074650")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 12:59
S53	2	("6848097").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/12/05 12:59


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debugging multiple threads

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**All Results**[J Accetta](#)[R Rashid](#)[D Golub](#)[R Baron](#)[T Anderson](#)**[Mach: a system software kernel - all 23 versions »](#)**

R Rashid, D Julin, D Orr, R Sanzi, R Baron, A ... - COMPCON Spring'89. Thirty-Fourth IEEE Computer Society ... - [ieeexplore.ieee.org](#)

... environments (eg Unix 4.3, Unix V.4), • **debugging** and monitoring ... inheritance, • automatic dispatching of method invocations to **multiple threads** of control ...

[Cited by 64](#) - [Related Articles](#) - [Web Search](#)

**[\[PDF\] Mach: A new kernel foundation for UNIX development - all 2 versions »](#)**

JJ Accetta, RV Baron, W Bolosky, DB Golub, RF ... - contract - [fsl.cs.sunysb.edu](#)

... coupled shared memory multiprocessors, **multiple threads** may execute in ... create or assign separate **threads** to handle ... Kernel **debugging** has always been a tedious ...

[Cited by 740](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

**[Eraser: A Dynamic Data Race Detector for Multithreaded Programs - all 54 versions »](#)**

S SAVAGE, M BURROWS, G NELSON, P SOBALVARRO, T ... - ACM Transactions on Computer Systems, 1997 - [portal.acm.org](#)

... Unfortunately, **debugging** a multithreaded program can be difficult ... Since simultaneous reads of a shared variable by **multiple threads** are not races, there is also ...

[Cited by 420](#) - [Related Articles](#) - [Web Search](#)

**[Multiple user software debugging system - all 5 versions »](#)**

A Khan, GT Noyama, AM Pennell - US Patent 5,892,941, 1999 - Google Patents

... by way of the **debug** interfaces in a concurrent manner for each of the **multiple** users. The **debugging** system establishes at least one **thread** connection for ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

**[Visual programming and debugging for parallel computing - all 4 versions »](#)**

JC Browne, SI Hyder, J Dongarra, K Moore, P Newton - Parallel & Distributed Technology: Systems & Applications, ..., 1995 - [ieeexplore.ieee.org](#)

... They directly represent **multiple threads** of control. ... provide the basis for a visual programming environment in which programming, logical **debugging**, and perfor ...

[Cited by 74](#) - [Related Articles](#) - [Web Search](#)

**[Modeling concurrency in parallel debugging](#)**

W Hseush, GE Kaiser - Proceedings of the second ACM SIGPLAN symposium on ..., 1990 - [portal.acm.org](#)

... 5 discusses the practicality of DPEs for parallel **debugging**. ... involves two events in different **threads**, as explained in ... by safe DPEs but not **multiple** DPEs is ...

[Cited by 34](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

**[Efficient Debugging Primitives for Multiprocessors - all 2 versions »](#)**

Z Aral, I Gertner, G Schaffer - [portal.acm.org](#)

... of system actions needed to im- plement even the simplest **debugging** mechanisms. ... but

in dozens or if breakpoints are applied against **multiple threads** of control ...

[Cited by 41](#) - [Related Articles](#) - [Web Search](#)

**Debugging multithreaded programs with MPD - all 12 versions »**MK Ponamgi, W Hseush, GE Kaiser - Software, IEEE, 1991 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)... You can use MPD to **debug** C pro- grams written with the C ... are **multiple** pre-decessorsonly when the event reflects a synchronization among **multiple threads**. ...[Cited by 20](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)**Interactive debugging and performance analysis of massively parallel applications - all 13 versions »**

R Wismüller, M Oberhuber, J Krammer, O Hansen - Parallel Computing, 1996 - Elsevier

... DETOP supports **debugging** of applications containing functional and data parallelism.Applications may consist of **multiple threads** and **multiple** pro- gram modules ...[Cited by 31](#) - [Related Articles](#) - [Web Search](#)**Flashback: A Lightweight Extension for Rollback and Deterministic Replay for Software Debugging - all 8 versions »**SM Srinivasan... - 2004 - [usenix.org](http://usenix.org)... has several advantages over the alternative for software **debugging**, even though ... Ensuringthat the **multiple threads** are scheduled in the same relative order ...[Cited by 41](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [Library Search](#)

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[Staphylococcus aureus and coagulase-negative staphylococci from blood stream infections: frequency ... - all 4 versions »](#)

SA Marshall, WW Wilke, MA Pfaller, RN Jones - Diagn Microbiol Infect Dis, 1998 - ncbi.nlm.nih.gov

... The recently completed **SCOPE** Surveillance Program found ... NCCLS oxacillin interpretive

**breakpoint** categories for ... In contrast, the NCCLS **breakpoints** for oxacillin ...

[Cited by 68](#) - [Related Articles](#) - [Web Search](#)

#### [Thread-scoped breakpoints](#)

CL Bates, PW Buenger - 2005 - freepatentsonline.com

... may be used without departing from the **scope** of the ... 171 adds the automated thread-specific **breakpoints** as **scoped breakpoints** to the **breakpoint** table 170 ...

[Cached](#) - [Web Search](#)

#### [Scope-based breakpoint selection and operation - all 3 versions »](#)

CL Bates, SG Halverson - US Patent 7,178,135, 2007 - Google Patents

... REMOVE **BREAKPOINTS** IN SELECTED **SCOPE** FIG. 12B ADD **BREAKPOINTS** TO CURRENT GROUP ... CONDITION

ALREADY ASSOCIATED WITH **BREAKPOINT** COMBINE CONDITIONS WITH CONJUNCTION ...

[Related Articles](#) - [Web Search](#)

#### [Method and apparatus for breakpoint analysis of computer programming code using unexpected code path ...](#)

K Code, CL Bates, PW Buenger, VP Images, P Class - freepatentsonline.com

... L. Bates et al., entitled "Thread-Scoped Breakpoints", filed the ... 4 and described herein, eg, **breakpoints** could be written ... may be made within the **scope** of the ...

[Cached](#) - [Web Search](#)

#### [Debugging breakpoints on pluggable components - all 3 versions »](#)

JK Haselden, BJ Hartman - US Patent 7,162,664, 2007 - Google Patents

... when debugging **breakpoints** in accordance with the herein **breakpoint** statement is not typed into a source ... Devices such as **scopes** and program-controlled bulbs ...

[Related Articles](#) - [Web Search](#)

#### [Runtime Conformance Checking of Objects Using Alloy - all 5 versions »](#)

ML Crane, J Dingel - Electronic Notes in Theoretical Computer Science, 2003 - Elsevier

... to 6 [7]; in fact, the default **scope** is actually ... using the Alloy Analyzer with such small **scopes**, it stands ... The number and placement of **breakpoints** are critical ...

[Cited by 7](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

#### [\[PDF\] Embee Performance Tests Technical Report 2003-465 - all 4 versions »](#)

ML Crane, J Dingel - cs.queensu.ca

... Model **Scope Breakpoints** Phase 1 Phase 2 First 16 Last 4 ... labour between the two programs

insignificant at small **scopes**. On the other hand, as the **scope** passes 16 ...

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Adapting a debugger for optimised programs

WS Shu - ACM SIGPLAN Notices, 1993 - portal.acm.org

... are initially read : by the optimiser, they are **scoped** using SCP ... Setting/Resetting **Breakpoints** ... Algorithm 1]. The "**scope**" information of the line is obtained and ...

Cited by 5 - [Related Articles](#) - [Web Search](#)

FUNCTION GENERATOR HAVING A MULTICHANNEL AMPLIFYING SYSTEM WITH EACH CHANNEL HAVING AN ADJUSTABLE ...

JES Trevoze - US Patent 3,560,727, 1971 - Google Patents

... AN ADJUSTABLE **SCOPE** AND BREAK POINT ... percentage of input, using the **breakpoint** adjust

B 2 for this ... of the slopes of those channels having **breakpoints** below that ...

Cited by 3 - [Related Articles](#) - [Web Search](#)

Mechanism for providing program **breakpoints** in a microcontroller with flash program memory - all 2 versions »

FM Pedersen - 2006 - freepatentsonline.com

... would be within the spirit and **scope** of the ... [0024] As mentioned above, software **breakpoints** are normally ... decode a specific opcode as a **breakpoint**, which halts ...

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[P Kessler](#)
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[D Golub](#)

#### Fast **breakpoints**: design and implementation - all 3 versions »

PB Kessler - Proceedings of the ACM SIGPLAN 1990 conference on ..., 1990 - portal.acm.org

... can still be fast, even with **multiple threads** of control ... The original inspiration for the **breakpoints** presented here ... became a part of **debugging** systems early ...  
 Cited by 106 - [Related Articles](#) - [Web Search](#)

#### Efficient **Debugging** Primitives for Multiprocessors - all 2 versions »

Z Aral, I Gertner, G Schaffer - portal.acm.org

... needed to im- plement even the simplest **debugging** mechanisms ... ones or twos but in dozens or if **breakpoints** are applied against **multiple threads** of control ...  
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#### Interactive **debugging** and performance analysis of massively parallel applications - all 13 versions »

R Wismüller, M Oberhuber, J Krammer, O Hansen - Parallel Computing, 1996 - Elsevier

... different windows can be used to **debug threads** with different ... **Multiple** windows also allow to use one window ... **break- points** set for these **threads** are indicated ...  
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#### **Debugging** multithreaded programs with MPD - all 12 versions »

MK Ponamgi, W Hseush, GE Kaiser - Software, IEEE, 1991 - ieeexplore.ieee.org

... You can use MPD to **debug** C pro- grams ... the numbered labels assigned to the two **breakpoints**. ... when the event reflects a synchronization among **multiple threads**. ...  
 Cited by 20 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

#### **Debugging** system with portable debug environment-independent client and non-portable platform- ... - all 2 versions »

LL You, N Rajgopal, MD Wimble - US Patent 5,815,653, 1998 - Google Patents

... i= new ListenerThread(listenerConnection) **thread** = ... through subroutine calls, stop at **breakpoints**, and stop ... support **debugging multiple** target environments concur ...  
 Cited by 49 - [Related Articles](#) - [Web Search](#)

#### KDB: a multi-threaded debugger for multi-threaded applications - all 6 versions »

PA Buhr, M Karsten, J Shih - Proceedings of the SIGMETRICS symposium on Parallel and ..., 1996 - portal.acm.org

... which provides support to **debug multiple** kernel **threads** ... prototype debugger [10] handles **multiple** user-level **threads** ... only if a particular **thread** encounters the ...  
 Cited by 18 - [Related Articles](#) - [Web Search](#)

#### Cross address space thread control in a multithreaded environment - all 2 versions »

DF Ault, ES Bender, JK Franks, S Walkowiak - US Patent 5,632,032, 1997 - Google Patents

... be used for **debugging** problems or just testing in general.) FIG. ... execution of **multiple threads** by holding some **threads** and printers and the like. ...

[Cited by 44](#) - [Related Articles](#) - [Web Search](#)

DETOP-An Interactive Debugger for PowerPC Based Multicomputer - all 8 versions »

M Oberhuber, R Wismliller - Parallel Programming and Applications, 1995 - books.google.com

... most convenient and comprehensive way to **debug all threads** ... **Multiple** windows also make possible to use one ... the **breakpoints** set for these **threads** are indicated ...

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Experience with topaz telebugging

DD Redell - ... and SIGOPS workshop on Parallel and distributed **debugging**, 1988 - portal.acm.org

... course of the project, related to **debugging** of re ... truly parallel target programs is that **multiple** debugger-related ... For example, two or more **threads** on different ...

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Portable **debugging** service utilizing a client debugger object and a server debugger object - all 3 versions »

LL You, DS Keller - US Patent 5,787,245, 1998 - Google Patents

... **thread** = new LJstenerThread(listenerConnection) ... support **debugging multiple** target environments concur- ging. ... reverseconnection."This **debugging** design, the ...

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